SURVEY OF [redacted] POWER

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1. The power demand at [redacted] has increased to the point that an increase in the capacity of the commercial power transformer installation is required. The present power demand is approximately 65 KVA. An emergency requiring operation of [redacted] on a full use basis will increase the power demand an estimated 40 to 50 KVA.

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2. To satisfactorily supply these demands, the existing 120-240 volt single phase power installation must be converted to a 120-208 volt, three phase, four wire system.

3. To implement this conversion, it will be necessary to:

a. Convert commercial power installation ~~converted~~ to three phase with a relocation of the high tension line. Install transformer capacity of at least 75 KVA.

b. Install two 75 KVA generators for standby service. The single phase unit installed at [redacted] and a single phase unit in stock to be converted to three phase, four wire.

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c. Construct a 20' x 20' concrete block building west of the vault to house the standby generators.

d. Move the underground fuel tank installed for the present generator to new location along side proposed building. Install another 1,000 gallon underground fuel tank.

Change Building #13 ~~to be changed~~ to full three phase operation. Loads to other buildings to be balanced across ~~the~~ phases.

4. It is estimated that funds not to exceed $15,000 will be required for the conversion. Not included is a sum not to exceed $3,000 that may accrue to the Agency as an allowance on equipment returned to the manufacturer on conversion of the generating equipment.

5. Unsafe and outmoded wiring was noted in the various buildings. To assure adequate service and eliminate possible trouble zones, it is strongly recommended that a modernization program be instituted as a part of the station maintenance program. This office is prepared to make a more detailed survey and recommendations. It is estimated that funds not in excess of $5,000 will be required.